REQUEST

For receiving Office use only
•
International Application No.
International Filing Date
Name of receiving Office and "PCT International Application"
Applicant's or agent's file reference 050508 2400

	International Filing D	pate
The undersigned requests that the present		
international application be processed		
according to the Patent Cooperation Treaty.		fice and "PCT International Application"
	Applicant's or agent's (if desired) (12 charac	file reference cters maximum) 050508-2400
Box No. I TITLE OF INVENTION DIALYSATES AND METHODS AND SYSTEMS RELAT	ED THERETO	
The state of the s	LD ITILICIO	(
Box No. II APPLICANT This pers	on is also inventor	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)		Telephone No.
EMORY UNIVERSITY Office of Technology Transfer 1784 N. Decatur Road Suite 130 Atlanta, GA 30322 US		Facsimile No.
		Teleprinter No.
		Applicant's registration No. with the Office
State (that is, country) of nationality: US	State (that is, country US	y) of residence:
	ed States except	the United States of America only the States indicated in the Supplemental Box
Box No. III FURTHER APPLICANT(S) AND/OR (FU		,,
Name and address: (Family name followed by given name; for a legal enti The address must include postal code and name of country. The country of t Box is the applicant's State (that is, country) of residence if no State of residen	ty, full official designation.	This person is:
O'NEILL, W. Charles	applicant only	
113 Kirk Crossing Decatur, GA 30030		applicant and inventor
US		inventor only (If this check-box is marked, do not fill in below.)
·		Applicant's registration No. with the Office
		,,
State (that is, country) of nationality: US	State (that is, country US	y) of residence:
This person is applicant for the purposes of: all designated all designated the United States		the United States of America only the States indicated in the Supplemental Box
Further applicants and/or (further) inventors are indicate	d on a continuation she	eet.
Box No. IV AGENT OR COMMON REPRESENTAT	IVE; OR ADDRESS I	FOR CORRESPONDENCE
The person identified below is hereby/has been appointed to at the applicant(s) before the competent International Authorities	ct on behalf of as:	agent common representative
Name and address: (Family name followed by given name: for a legal entity, The address must include postal code and name of coun		Telephone No. (770) 933-9500
LEE, Cynthia J. THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP		Facsimile No.
100 Galleria Parkway, N.W. Suite 1750		(770) 951-0933
Atlanta, GA 30339-5948 US		Teleprinter No.
		Agent's registration No. with the Office
		46,033
Address for correspondence: Mark this check-box whe the space above is used instead to indicate a special address.	re no agent or common ress to which correspon	representative is/has been appointed and dence should be sent.

Form PCT/RO/101 (first sheet) (January 2004) LegalStar 2004, Form PCTREQ

See Notes to the request form

Continuation of Box No. III FURTHER APPLICANT(S	AND/OD (FURTHE	CD) INVENITOR (C)
If none of the following sub-boxes is used, this sheet should n) AND/OR (FURIME	JR) INVENTOR(S)
If none of the following sub-boxes is used, this sheet should not be included in the real Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) LOMASHVILI, Koba 1507 N. Decatur Road, Apt. #4 Atlanta, GA 30307 US		
State (that is, country) of nationality:	16	
GE	State (that is, country US	y) of residence:
States United State	es of America	the United States of America only the States indicated in the Supplemental
Name and address: (Family name followed by given name: for a legal entity. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence if no State of the Box is the applicant's State (that is, country) of the applicant is the applicant's State (that is, country) of the applicant's State (that is, country) of the applicant is the applicant i	the address indicated in this e is indicated below.)	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office
State (that is, country) of nationality:	State (that is, country,	r) of residence:
This person is all designated all designated applicant for the States United States		the United States of America only the States indicated in the Supplemental
Name and address: (Family name followed by given name; for a legal enting The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence	he address indicated in this is is indicated below.)	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office
State (that is, country) of nationality:	State (that is, country)) of residence:
This person is all designated applicant for the all designated United States		he United States the States indicated in the Supplemental
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence is	e address indicated in this is indicated below.)	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office
State (that is, country) of nationality:	State (that is, country)) of residence:
This person is applicant for the all designated States all designated United States		the United States indicated f America only the States indicated in the Supplemental
Further applicants and/or (further) inventors are indicated	l on another continuation	on sheet.

Form PCT/RO/101 (continuation sheet) (January 2004) LegalStar 2004, Form PCTREQ

Sheet	NIa	3
Sneer	NΛ	•

Box	No.V	DESIGNAT	TIONS			
The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.						
Hov	vever,				•	
	DE Ger	many is not de	esignated for any kind of na	tional protection		
	KR Re	oublic of Korea	is not designated for any ki	ind of national protection	n	
	RU Ru	ssian Federation	is not designated for any k	tind of national protection	n	
(The	e check-b ct, under he conseq	oxes above me the national le uences of such	ay be used to exclude (irrev aw, of an earlier national ap h national law provisions in	ocably) the designation oplication from which pr these and certain other	s concerned in order to riority is claimed. See t States.)	avoid the ceasing of the he Notes to Box No. V as
	No. VI	PRIORITY C				
The	priority (of the followin	ng earlier application(s) is he	ereby claimed:		·
0	Filing f earler a	date pplication	Number of earlier application	W	here earlier application	is:
	(day/mon	th/year)	or earner application	national application: country or Member	regional application:* regional Office	international application: receiving Office
	28 Octol (28/10	ber 2003 /2003)	60/515,174	US		
item	(2)			•		
item	(3)			·		
	Further p	priority claims	are indicated in the Suppler	nental Box.		
The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:						
all items item (1) item (2) item (3) other, see Supplemental Box						
* Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)):						
Box No. VII INTERNATIONAL SEARCHING AUTHORITY						
Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used): ISA/US						
Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):						
Date	(day/moi	nth/year)	Numb	ier Coui	ntry (or regional Office))
Box No. VIII DECLARATIONS						
The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration): Number of declarations						
	Box No	. VIII (i)	Declaration as to the ident	tity of the inventor		:
	Box No	. VIII (ii)	Declaration as to the appli filing date, to apply for an	cant's entitlement, as at t d be granted a patent	the international .	:
	Box No	. VIII (iii)	Declaration as to the appli filing date, to claim the pri	cant's entitlement, as at to	the international cation	:
	Box No. VIII (iv) Declaration of inventorship (only for the purposes of the designation of the United States of America)			:		
	Box No	. VIII (v)	Declaration as to non-prej	udicial disclosures or exe	ceptions to lack of nove	lty:

Sheet	No	4
Sileei	INO.	-

Box No. IX CHECK LIST; LANGUAGE OF FILING			
This international application contains: (a) in paper form, the following number of sheets:	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):	Number of items	
request (including declaration sheets) : 4 description (excluding sequence listing and/or tables related thereto) : 26	 fee calculation sheet original separate power of attorney original general power of attorney copy of general power of attorney; reference number, if 	: : :	
claims : 8 abstract : 1 drawings : 5 Sub-total number of sheets 44 sequence listing : tables related thereto : (for both, actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (c) Total number of sheets : 44 (b) only in computer readable form (Section 801(a)(i)) (i) sequence listing (ii) tables related thereto (c) also in computer readable form (Section 801(a)(ii)) (i) sequence listing (ii) tables related thereto Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the sequence listing: tables related thereto: (additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)	any: statement explaining lack of signature	:	
Figure of the drawings which should accompany the abstract: 3 Language of filing of the international application: English			
Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).			
Cynthig) J. Lee Attomey for Applicant			
For receiving Office use only 1. Date of actual receipt of the purported international application: 2. Drawings:			
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:			
4. Date of timely receipt of the required corrections under PCT Article 11(2):			
5. International Searching Authority (if two or more are competent): ISA/	6. Transmittal of search copy delayed until search fee is paid		
Date of receipt of the record copy by the International Bureau:	For International Bureau use only ————————————————————————————————————		

This sheet is not part of and does not count as a sheet of the international application.

PCT	For receiving Office use only			
FEE CALCULATION SHEET				
Annex to the Request	International Application No.			
-	7			
Applicant's or agent's file reference 050508-2400	Date stamp of the receiving Office			
Applicant				
EMORY UNIVERSITY et al.	1			
CALCULATION OF PRESCRIBED FEES				
I. TRANSMITTAL FEE	300.00 T			
2. SEARCH FEE	1,000.00 [S]			
International search to be carried out byUS				
(If two or more International Searching Authorities are competent to carry out the international search, indicate the name of the Authority which is chosen to carry out the international search.)				
3. INTERNATIONAL FILING FEE				
Where item (b) and/or (c) of Box No. IX apply, enter Sub-tota Where item (b) and (c) of Box No. IX do not apply, enter Tota	number of sheets }			
il first 30 sheets	1,134.00 [i]			
[5] 14 40.00				
number of sheets in excess of 30 x 12.00 = [168.00 [i2]			
additional component (only if sequence listing and/or tab thereto are filed in computer readable form under Section or both in that form and on paper, under Section 801(a)(ii)	oles related 1 801 (a)(i),):			
400 x =	i3			
Add amounts entered at i1, i2 and i3 and enter total at I	1,302.00 [
(Applicants from certain States are entitled to a reduction of 75% of the international filing fee. Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 25% of the international filing fee.)				
4. FEE FOR PRIORITY DOCUMENT (if applicable)	20.00 P			
5. TOTAL FEES PAYABLE	2,622.00			
Add amounts entered at T, S, I and P, and enter total in the TOT	TOTAL TOTAL			
MODE OF PAYMENT				
authorization to charge deposit account (see below)	☐ cash ☐ coupons			
☐ cheque ☐ bank draft	revenue stamps other (specify):			
AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT A (This mode of payment may not be available at all receiving Office				
Authorization to charge the total fees indicated above.	Deposit Account No.: 20-0778			
(This check-box may be marked only if the conditions for depo	Date: 27 October 2004			
accounts of the receiving Office so permit) Authorization to che deficiency or credit any overpayment in the total fees indicated	narge any			
Authorization to charge the fee for priority document.	Signature: Colluan Lu			

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See Notes to the fee calculation sheet